

Seed-stage algae-to-biofuels start-up

Technical Innovation

- Rapid & stable nuclear genetic engineering of eukaryotic algae
- WW exclusive license Max Planck

Costumers

Algae-to-biofuels, big oil, Ag-biotech, High-margin products

Products

- Licensing/strategic partnerships for biofuels and alternative products
- Services

Value to Costumers

- Proprietary solutions for higher conversion of CO2 and oils secretion by non-toxic mechanism
- 50%-80% reductions in costs

Value to Investors

 Minimize funding to value inflection milestones + no large capital investments



Biodiesel Opportunity

55% CAGR; US Current 3,3 bn gallons; feedstock availability Algae potential and momentum

Problem: high cost

Expensive cultivation, harvesting, and extraction

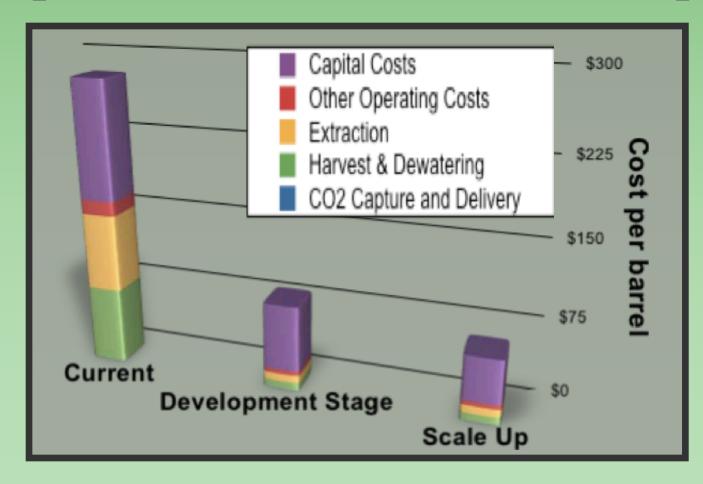
GPB's solutions

Excrete oil (fat) by non-toxic mechanism

Convert more CO2 into oil

Grow in open-ponds without contamination

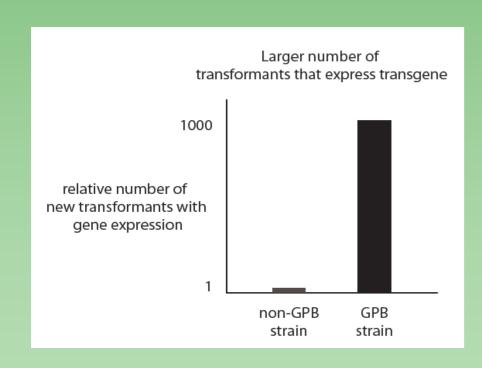
[50-80% reduction in cost]

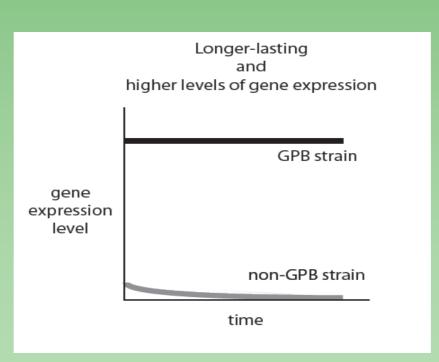


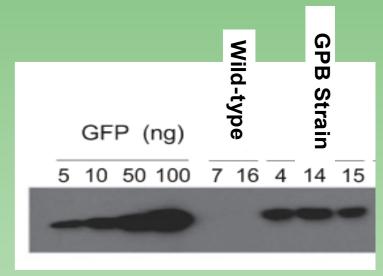




What's is GPB's competitive advantage? Rapid & stable algae nuclear genetic engineering









GPB [no compromises]

Other companies

Organism with high levels of oils



(B)

(C)



(A)

[cyanobacteria]





Powerful genetic engineering









Secretion by non-toxic mechanism





& ethanol]





Engineering platform- go beyond what natures offers





[crude-like molec





Technical breakthrough to aggressively address production hurdles

Bring genetic engineering and synthetic biology to algae biofuels Secretion + higher oils to 50-80% reduction in cost to ~\$60/bbl

Minimize investments to reach value inflection milestones

\$1M+\$4M, 36 months to prototype secretion + higher oils

Low-risk value inflection points

Early sources of revenue: high-value cosmeceuticals/nutraceuticals

Large overlap between biofuels and high-value products

R&D and production outsourcing

Aggressive grant funding for biofuels

No Large Capital Investments

Focus on engineering of strains
Early strategic partnerships/service/M&A

Accomplished management and scientific team



Management Team

Richard Yu

CEO-Yale PhD, Sr Fellow MSI, Yeast/algae genetic engineering and biochemistry

Leandro Vetcher

Business Development- Columbia MA Biotech, MIT MBA, Drug and Business development, Plant lipid biology

Wallace Marshall President SAB- Professor, UCSF, Dept. of Biochem & Bioph, Leader in C. reinhardtii engineering and organelle size control

Advisory Board

Robert Farese

Gladstone, UCSF -Prof. Biochem & Bioph, Leader in fat synthesis and cell biology of fat droplets

Ralph Bock Director Max Planck Inst. of Molec. Plant Physiology, Leader in C. reinhardtii genetic modification methods

Wayne Riekhof Fellow Department of Medicine - National Jewish Health, Expert in C. reinhardtii lipid metabolism

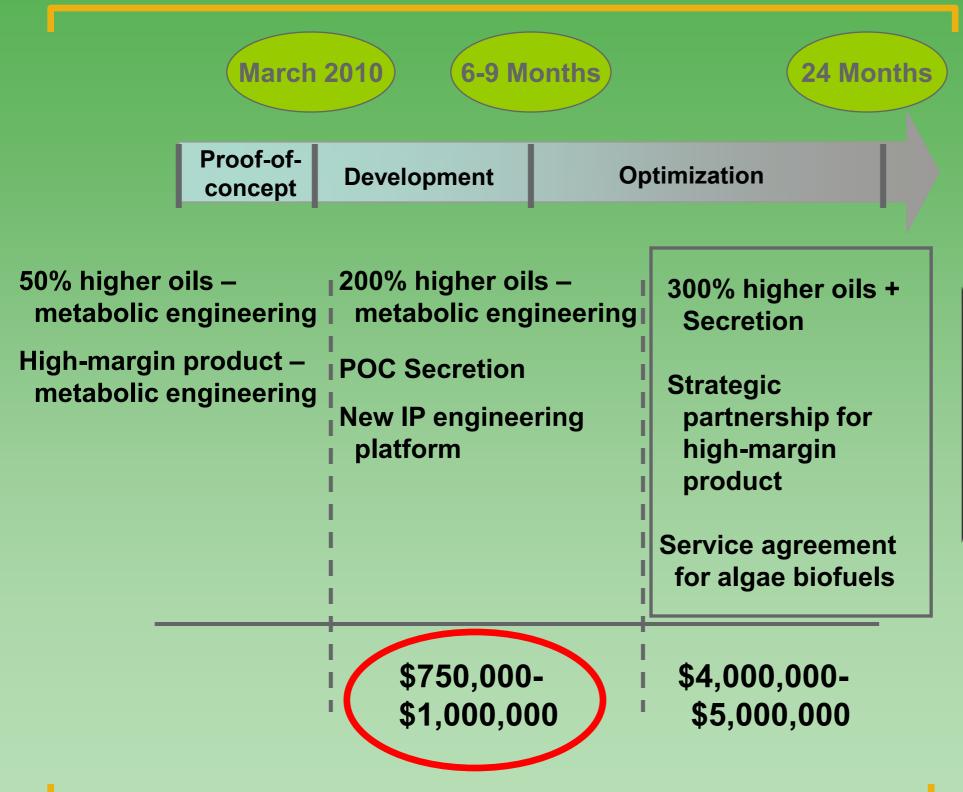
Peter Walter

Prof. Chair, UCSF -Department of Biochem & Bioph, Leader in membrane biogenesis and secretion

Dan Santi

Director Translational Research- QB3, former CEO Kosan, Pioneer in synthetic biology, Successful Bioentrepreneur





Strategic
Partnership/M&A –
Big oil, Algae biofuel, Ag

oil Algae blofuel, Ag

Early Revenue-Strategic Partnership for high margin product

Early Revenue-Services for algae engineering

Financing for growth – VC/PE, Public